

## ETHYLENE TRIMERIZATION CATALYST AND METHOD FOR TRIMERIZING ETHYLENE USING THE SAME

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### Abstract of JP2001096164

**PROBLEM TO BE SOLVED:** To efficiently and highly selectively produce 1-hexene from ethylene.  
**SOLUTION:** An ethylene trimerization catalyst comprises a transition metal complex with a coordinated neutral multidentate ligand having a tripod type structure, represented by the formula  $LCrX_n$  (L is a neutral multidentate ligand having a tripod type structure; X is one or more kinds selected from a group consisting of a halogen atom, an amide group, a sulphonyl group, and an alkoxy group; M is a transition metal complex among group 3-10 in the periodic table; and n is an integer equal to the oxidation number of the transition metal complex M), an alkyl metal compound, and radical anions.

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